

Architectural Specifications

Polyurethane

1.1 Product Description

1.1.1	Urethane products are made with high density polyurethane with an overall density similar to white pine at 13 to 17 pounds per cubic foot. The urethane process provides a greater skin density than core density for increased durability.
1.1.2	All products are manufactured with a white or semi-white color coating. Further, these products receive a primer coat finish before they are shipped to customers. The combination of the integral shell-like skin, the barrier coat, and the primer top coat provide an excellent substrate for durable finishes.
1.1.3	Ultra violet rays do not affect properly coated products.
1.1.4	The compressive strength of polyurethane products falls within the 300-400 P.S.I. range. (The parts are not intended for structural use).
1.1.5	The tensile strength of polyurethane products falls within the 350-400 P.S.I. range. (The parts are not intended for structural use.)
1.1.6	The degree of flexibility of any given polyurethane product is determined by the size and shape of its cross section.
1.1.7	urethane has a closed cell structure which provides protection from most solvents and renders it almost completely hydrophobic. It will not rot.
1.1.8	All urethane products resist the growth of mildew and fungus and further provide no nutritional value for other organisms such as small rodents.

1.2 Submittals

1.2.1	Submit urethane product data and shop drawings for customer approval.
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2.1 Acceptable Manufacturer

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3.1 Installation

3.1.1	urethane products are handled in the same manner as wood
3.1.2	adhesives refer to model PL Premium.
3.1.3	Fasteners refer to nails, screws, bolts etc.
3.1.4	adhesives and fasteners must be used for installing all products on concrete, metal, vinyl or wood. Adhesive must be used on all joints to ensure the beauty of your installation for years to come.

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Section 1 General Product & Company Information

Chemical Name Foamed Polyurethane

Section 2 Hazardous Ingredients

Hazards None Known

Section 3 Physical / Chemical Characteristics

Density 5 - 42 lbs per cubic foot
Boiling Point N/A Material is Solid
Vapor Pressure N/A Material is Solid
Melting Point Vapor N/A
Density N/A
Evaporation Rate N/A
Appearance Exterior - White, Off-White, or Yellow
Interior - White or Yellow
Odor None

Section 4 Fire & Explosion Hazard Data

Flash Point N/A
Extinguishing Method Dry Chemical, CO₂, Foam, or Water
Special Firefighting Procedures Wear approved self-contained breathing apparatus
Unusual Fire & Explosion Hazard N/A

Section 5 Reactivity Data

Stability Stable - Yes
Unstable - No
Conditions to Avoid Avoid an open flame
Hazardous Decomposition Products Combustion may form CO, CO₂, Benzene, Nitrogen Oxides, and/
or Hydrogen Cyanide.
Hazardous Polymerization None will occur

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Section 6 Health Hazard Data

Acute	Cutting, Grinding, or Sanding polyurethane foam can generate dust. This dust may cause respiratory irritation if inhaled.
Routes of Entry	
Skin	Possible
Ingestion	Possible
Threshold Limit Value (TLV)	None Established
Chronic	None Known
Signs/Symptoms of Exposure	Eye and/or respiratory tract irritation. Redness and/or swelling on areas of contact.
Emergency/First Aid	
Inhalation	Remove from area if dust is inhaled. Consult physician if irritation continues.
Eye Contact	Flush eyes with water. Consult physician if irritation continues.

Section 7 Precautions for Safe Handling and Disposal:

Waste Disposal Method:	Disposal in accordance with local, state, and federal regulations for disposal of solid waste.
Special Precautions:	Store in a temperature-controlled environment away from extreme heat, cold, and flame or possible.
Steps to be taken if material is released or spilled	N/A

Section 8 Control Measures

Respiratory Protection:	No Respirator necessary.
Ventilation:	Adequate ventilation when cutting or sanding is required.
Protective Gloves:	Not necessary, but suggested.
Eye Protection:	Safety glasses with eye shields when cutting or moving.
Other Protective Clothing or Equipment:	Eye wash station should be available.

NOTE: All information in this document is believe to be accurate as of 8/1/2010